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United States Patent [19]

Saavedra et al.

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[54] **BIOPOLYMER-BOUND NITRIC OXIDE-RELEASING COMPOSITIONS, PHARMACEUTICAL COMPOSITIONS INCORPORATING SAME AND METHODS OF TREATING BIOLOGICAL DISORDERS USING SAME**

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Related U.S. Application Data

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[51] **Int. Cl.⁶** A61K 31/785; A61K 38/00

[52] **U.S. Cl.** 424/78.08; 514/18

[58] **Field of Search** 424/78.08; 514/18

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[57] **ABSTRACT**

A polymeric composition capable of releasing nitric oxide under physiological conditions which includes a biopolymer, such as a peptide, polypeptide, protein, oligonucleotide or nucleic acid, to which is bound a nitric oxide-releasing $N_2O_2^-$ functional group; pharmaceutical compositions comprising the polymeric composition; and methods of treating biological disorders in which dosage with nitric oxide is therapeutic.

28 Claims, No Drawings